





GEI Consultants, Inc.

Canton Airport Canton MA

09382-2

Accutest Job Number: M91651T

Sampling Date: 05/24/10



GEI Consultants, Inc.

LLombardo@geiconsultants.com

ATTN: Leslie Lombardo

Total number of pages in report: 28



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) ISO 17025:2005 (L2235) This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.



August 16, 2010

Mr. Raymond Siegener, Ph.D. GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801-1970

RE: Accutest Job M91651T (Revision 1)

Dear Mr. Siegener:

The final report for Accutest job number M91651T has been revised to include a case narrative description of the client-requested dilution of the samples M91651-111T and M91651-112T.

Sincerely,

Mark Warren

Accutest Laboratories of New England, Inc.

Sections:

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Sample Summary

GEI Consultants, Inc.

Job No: M91651T

Canton Airport Canton MA Project No: 09382-2

Sample	Collected			Matri	ix	Client
Number	Date	Time By	Received	Code	Type	Sample ID
M91651-1117	05/24/10	13:39 SSH	05/25/10	so	Soil	093822-HS-BD.5-6
M91651-1127	05/24/10	13:40 SSH	05/25/10	so	Soil	093822-HS-BD.5-7





SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: GEI Consultants, Inc. Job No M91651T

Site: Canton Airport Canton MA Report Date 8/16/2010 4:35:19 PM

2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 05/24/2010 and were received at Accutest on 05/25/2010 properly preserved, at 2.9 Deg. C and intact. These Samples received an Accutest job number of M91651T.A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GC By Method SW846 8082

Matrix: SO Batch ID: OP22217

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M93324-1MS, M93324-1MSD, OP22217-MSMSD were used as the QC samples indicated.
- Samples M91651-111T and M91651-112T were diluted with Ottawa sand prior to preparation and analysis. 70.92 grams (g) of sand was added to 20.89 g of sample M91651-111T and homogenized thoroughly resulting in a dilution factor of 3.4. 70.86 g of sand was added to a 20.95 g aliquot of sample M91651-112T and homogenized thoroughly resulting in a dilution factor of 3.4

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M91651T).





Sample Results		
Report of Analysis		



Page 1 of 1

Report of Analysis

Client Sample ID: 093822-HS-BD.5-6 Lab Sample ID: M91651-111T

Matrix: SW846 8082 SW846 3540C Method: Project:

SO - Soil **Canton Airport Canton MA**

Date Sampled: 05/24/10 Date Received: 05/25/10

Percent Solids: 78.7

		File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Ru	n #1	YZ59166.D	1	08/07/10	\mathbf{CZ}	08/05/10	OP22217	GYZ2524
Ru	n #2	YZ59197.D	10	08/09/10	CZ	08/05/10	OP22217	GYZ2525

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2	15.6 g	10.0 ml

PCB List

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	ND ND ND ND ND ND S140 ^a	120 120 120 120 120 120 120	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
CAS No. 877-09-8 877-09-8	Surrogate Recoveries Tetrachloro-m-xylene Tetrachloro-m-xylene	Run# 1 111% 120%	Run# 2 108% 102%	Limits 30-150% 30-150%
2051-24-3 2051-24-3	Decachlorobiphenyl Decachlorobiphenyl	117% 137%	116% 116%	30-150% 30-150% 30-150%

(a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Page 1 of 1

Report of Analysis

Client Sample ID: 093822-HS-BD.5-7 Lab Sample ID: M91651-112T

SO - Soil SW846 8082 SW846 3540C Method:

Project: Canton Airport Canton MA

Date Sampled: 05/24/10 Date Received: 05/25/10

Percent Solids: 79.4

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ59167.D	1	08/08/10	\mathbf{CZ}	08/05/10	OP22217	GYZ2524
Run #2	YZ59198.D	10	08/09/10	CZ	08/05/10	OP22217	GYZ2525

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2	15.2 g	10.0 ml

PCB List

Matrix:

CAS No.	Compound	Result	RL	Units Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	ND ND ND ND ND ND 4950 ^a	120 120 120 120 120 120 120	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
CAS No. 877-09-8 877-09-8 2051-24-3	Surrogate Recoveries Tetrachloro-m-xylene Tetrachloro-m-xylene	Run# 1 113% 120% 119%	Run# 2 111% 106% 118%	Limits 30-150% 30-150% 30-150%
2051-24-3	Decachlorobiphenyl Decachlorobiphenyl	140%	117%	30-150% 30-150%

(a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound





Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form
- Sample Tracking Chronicle



Chain-of-Custody Re	cord			Labor	atory:	Accutest			<i></i>	Labor (Lab use	atory .	lob#		M91651	_
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	Project N	ame: Cantor	Airport				Proje	ect Loc	ation:	Canton, N	1A			Page 1 of	10
Consultants	Project N	umber: 0938	2-2				Proje	ect Mar	nager: /	Anne Leif	er				
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- 3 093822-HS-DUP-8		5/24/2010		so	1	SSH	Î.	 	 		+-	+	<u> </u>	HOW /FI	
~4 093822-HS-DUP-9		5/24/2010		so	1	SSH	t –	<u> </u>	 	-		+		HUK /PI	el
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M91651T: Chain of Custody Page 1 of 12



Chain-of-Custo	dy Recor	d			Labora	itory:	Accutest				Laborato	-	b#		m91651
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M91651T: Chain of Custody Page 2 of 12



Chain-of-Custody Rec	ord		-	Laboratory: Accutest						Labor	atory .			M91651	
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M91651T: Chain of Custody Page 3 of 12



Chain a	f-Custody Reco	ord			Labora	tory:	Accutest					atory J	lob#			M9165	-1
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_		Project Na	me: Canton	Airport				Projec	t Locat	ion: C	anton, f	IA			′	age 4 O	10
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-37	093822-HS-AV-1		5/24/2010	1225	so	1	SSH	x							/	4061/Q	eez
-38	093822-HS-AW-1		5/24/2010	1226	so	1	SSH	x					丄			<u> </u>	
-39	093822-HS-AX-1		5/24/2010	1227	so	1	SSH	х									
-40	093822-HS-AY-1		5/24/2010	1228	so	1	SSH	х									
-41	093822-HS-AZ-1		5/24/2010	1229	so	1	SSH	x									
-42	093822-HS-BA-1		5/24/2010	1230	so	1	SSH	x						\sqcup			
-43	093822-HS-BB-1		5/24/2010	1231	so	1	SSH	х									
-49	093822-HS-BC-1		5/24/2010	1232	so	1	SSH	х									
-45	093822-HS-BD-1		5/24/2010	1233	so	1	SSH_	х								<u> </u>	
-46	093822-HS-AV-2		5/24/2010	1234	so	1	SSH	x						1 1			
-47	093822-HS-AW-2		5/24/2010	1235	so	1	SSH	х						↓		,,,,	
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	leeded: GEI requires the i				ard be me	t for all er					ound Ti ess day					itting rush amples, you	, , , , , , , , , , , , , , , , , , , ,
whenever po Relinquished by sa		Date: /	time:	Received by:	(signature)	سسند	. Similar	A Yand	Lance Published			1er				oratory to c	
	210m01	5/25/10	0800	160	For	da	,	1	Normal 10-Day		-	167	-			can be ach	
i . Relinquished by: (s	Jordature)	Date :	Time:	Received by:	(signature)	ugi		1	5-Day		3-Da		-	1			
GEI	Z.,	5/25/10	1245	272	- Ca			14,	a-uay	Additio	onal Re	aulren	ents/	Comme	nts/Re	marks:	, N
Relinquished by: (s	signature)	Date ,	Time:	Received by	(eighature)	0.0			7.71		ACTION F			Para III			
Ran	Suin	5/5/10	1245	_	[NH	10	ol	_	ATES API			_4011160	·				
Relinquished by: (s	signature)	Date:	Time:	S. Received by	(signature)		Α.				LEVATED	PCBS.					
	litill	Strolla	1515	a lail	1/ 1	01							uai samo	le labels s	say 5/25/1	10 and are	
<u>برين</u> .	v-over	11/4/10		1. 1.46	1	<u> </u>		incorre									,

M91651T: Chain of Custody Page 4 of 12



Chain-o	nain-of-Custody Record					tory:	Accutest				Laborato	•	ŧ		m91	651
		1.				P	oject info	matio	n							
		Project Na	me: Canton /	Airport				Projec	ct Loca	ation: C	anton, MA				Page 5	of 10
G	Consultants	Project Nu	mber: 09382	-2				Projec			nne Leifer			v 1 1861	Tari Thilippo	5 8 6 1 11
	nicorn Park Drive	Send Repo	rt to:	Ray Sieg	ener			المارية المارية	ثلثت	7	Preservat	ive .	<u>1</u>	1	Sampl	Handling
	burn, MA 01801 I: 781.721.4000														Sami	oles Field
	: 781.721.4073	Send EDD	to: labdata@	geiconsul	tants.com	1		at .	53.7		Analysi	5		ŧ.		Itered
ICP PRESU	MPTIVE CERTAINTY R	EQUIRED -	YES NO) A h	A. E. W.	634	Ca.	soxlet							YES (NO NA
Yes, Are MC	CP Analytical Methods F	lequired?		YES	NO	NA	1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -									ed Shipped ith Ice
f Yes, Are Dri	inking Water Samples S	submitted?		YES	(NO)	NA		Jan		1	1		1		_	_
f Yes. Have Y	ou Met Minimum Field	QC Requiremen	nts?	YES	NO	NA		s by manual ction			1 1				YES) NO
Cap Sample	roll of Dark		Collect Date		Matrix	No. of	Sampler(s) Inttale	PCBs beatracti								eoffic Remeri
-49	093822-HS-AY-2	DARKY was	5/24/2010	1237	SO	1	SSH	X V		 		1 1			Profession Salvation	,
-50	093822-HS-AZ-2		5/24/2010	1238	so	1	SSH	×							Hold	C0070
-21	093822-HS-BA-2		5/24/2010	1239	so	1	SSH	×							/	,
-52	093822-HS-BB-2		5/24/2010	1240	so	1	SSH	х							Hold	Free 7
-53	093822-HS-BC-2		5/24/2010	1241	so	1	SSH	х		L		1			1, ,	<u>/</u>
-54	093822-HS-BD-2		5/24/2010	1242	so	1	SSH	x		<u> </u>		1			HOLD.	100 7c
-55	093822-HS-AV-3		5/24/2010	1243	so	1	SSH	×	<u> </u>			1 1-		+	1 \	1
-56	093822-HS-AW-3		5/24/2010	1244	so	1_	SSH	×		<u> </u>				_	1	
-57	093822-HS-AX-3		5/24/2010	1245	so	1	SSH	×		<u> </u>			-			
-58	093822-HS-AY-3		5/24/2010	1246	so	11	SSH	×	<u> </u>			\bot	4	 		
-59	093822-HS-AZ-3		5/24/2010	1247	so	1	SSH	×			<u> </u>		-			/
-40	093822-HS-BA-3		5/24/2010	1248	so	11	SSH	×			J. 73 - N 124 (Sec.	1 1	- 5-6			
MCP Level N whenever pos	eeded: GEl requires th salbre.	e most stringent		SP standa			ialytes				ound Time ess days):					sn , you mus i
Relinquished by sar	mpler: (signature)	Date:		Received by:				88.13072	D. 2.34.4	ı X		-				to confirm
· X //	mall.	6 15/W	0800	166	o Fr	Ha	0		10-Da		- 7-Day		that	the TA	T can be	achieved.
Relinquished by: (sl	gnature) /	Date:	Time:	Received by:	(signature),			1		y	3-Day					
2 60T	Ciste	SESTIO	1245	27/	n Se	yene_		\$1V	21.44	Additi	onal Requ	irements	/Comr	nents/l	Romarks	ا المادية المادية
Relinquished by: (s	ignature)	Date:	Time:	Received by:	(pignatura)		1	MANU	AL SOXI	ET EXTR	ACTION REQU	JIRED.				
3 Tan	-	5/25/10	1245	3.	not !	deil	حيا		ATES A							
Relinquished by: (a	(gnature)	Date :	Time:	Received by:				CAUTIO	ON- POT	ENTIAL I	ELEVATED PC	BS.				
4. W.	le her	5/25/10	1618	4. C.	De	we		Sample	s were	collected	on 5/24/10. In	dividual san	npie labe	is say 5/2	5/10 and are)
	T 75							Incorre								

M91651T: Chain of Custody Page 5 of 12



hain-of	f-Custody Reco	ord			Labora	torv:	Accutest				Labor		lob#		M91651
Jilaiii-Ui	i-Custouy iteot	,, u					olect Info	ematic	n		(Lab use	ofily)			1/1/4/
		Project Nar	me: Canton A	Airport			oject mio			tion: C	anton, N	IA			Page 6 of 10
G	FI	Project Nu	mber: 09382-	2				Proje	ct Mana	ger: A	nne Leif	er			
400 11	nicorn Park Drive	Send Repor		Ray Siege	nor						Prese	vative	4		
	burn, MA 01801	Seno Repor	n io.	tay siege	:1(6)										Sample Handlin
	: 781.721.4000	Send EDD 1	to: labdata@	geiconsul	tants.com	1		_	1						Samples Field
FX	: 781.721.4073										Anal	ysis		i T	
CP PRESUA	APTIVE CERTAINTY RE	QUIRED -	(YES) NO)		in the	W	soxlet				İ	1		YES NO N
Voe Are MC	P Analytical Methods Re	uired?		YES	NO	NA									Sampled Shippe
	nking Water Samples Sul	-		YES	NO	NA		aur							With Ice
•	ou Met Minimum Field Qu		nte? (YES	NO	NA		۾ ڇا					-		(YES) NO
	They was the same		Cotteed	-	11.00 P	Sec. 3	a Roma and	PCBs by manual extraction							¥4,867
Lab Sample Number	GEI Sample II		Dete	Time	Martix	No.of	Sumpler(a)	PCBs extra					1		Sample Specific Rem
-61	093822-HS-BB-3		5/24/2010	1249	so	1	SSH	x							
-62	093822-HS-BC-3		5/24/2010	1250	so	1	SSH	x						oxdot	Hold Greeze
-63	093822-HS-AV-4		5/24/2010	1251	so	1_	SSH	x							
-64	093822-HS-AW-4		5/24/2010	1252	so	1	SSH	x					_	<u> </u>	1,
-65	093822-HS-AX-4		5/24/2010	1253	50	11	SSH	×						├ ──├	HOLD/Sinces
-66	093822-HS-AY-4		5/24/2010	1254	so	1	SSH	×			<u> </u>				111110
-67	093822-HS-AZ-4		5/24/2010	1255	so	1	SSH	x			L -	_	-		Hold/free-
-68	093822-HS-BA-4		5/24/2010	1256	so	1	SSH	×				_			
-69	093822-HS-BB-4		5/24/2010	1257	so	1	SSH	×	1		\vdash		+		17.12.10
-70	093822-HS-BC-4		5/24/2010	1258	so	1	SSH	×				\dashv			Hold/fre
-21	093822-HS-AV-5		5/24/2010	1259	so	1	SSH	x	L					 	- \
-72	093822-HS-AW-5		5/24/2010	1300	so	1	SSH	×	L		ound Th	4	3.84 (1.55)	Poforo o	ubmitting rush
CP Level N henever pos	eded: GEI requires the r	nost stringent	Method 1 MC	P stands	ird be me	t tor all a	ialytes				ees day				nd samples, you mu
Hinquished by san		Dete	Time:	Received by:	(signature)	- Charles of a state	Na contract to the state of		Normal			тег		notify the	laboratory to confin
γ	(1)00%	5/58/20	0800	1. GC	1 Fr	do		1		/		y		that the	TAT can be achieved
linquished by: (si	(nature)	Date: /	Time:	Received by:		7		1	5-Day		3-Day			ļ	
601	Ende	5/05/10	1245	2. 1 /	5	gen				Additi	onal Re	guiren	ients/C	omment	s/Remarks
linguished by: (sl	(gnature)	Date:	Time:	Received by:	(eignature)		0.2	MANU	AL SOXL	ET EXTR	ACTION R	EQUIRED).		
Ilan	Sugar	5/25/00	1245	3,(-	04	ach	W	DCR R	ATES AP	PLY.					
elinquished by. (si	•	Date :	Time:	Received by:				CAUTION- POTENTIAL ELEVATED PCBS.							
. Wy	Larle	6/28/10	1516	4. Jul	il 1	hell		Sampl	es were c	ollected	on 5/24/10	. Individ	ual samp	e labels say	5/25/10 and are
		(.				_		incom							

M91651T: Chain of Custody Page 6 of 12



hain-of-Custody Reco	ord			Labora	tory:	Accutest				Labo (Lab us	ratory	Job#		M91651
	1		····		P	roject Info	rmatio	,		,				
	Project Na	me: Canton	Airport				Projec	t Loca	tion: C	anton,	MA			Page 7 of 10
GEI Consultants	Project Nu	mber: 09382	-2				Projec	t Mana	iger: Ai					
400 Unicom Park Drive	Send Repo	rt to:	Ray Sieg	ener				and arrays and		Pres	rvative	 i		Sample Handlin
Woburn, MA 01801											- 1		1 1	
PH: 781.721.4000 FX: 781.721.4073	Send EDD	to: labdata@	geiconsul	tants.com	1			است	<u> </u>	An	ilysis			Samples Field Filtered
P PRESUMPTIVE CERTAINTY RE	QUÍRED .=	(YES) N	0	4 \$ 150			soxlet							YES NO N
es. Are MCP Analytical Methods Re	quired?		(YES)	NO	NA						1	-		Sampled Shipper
es, Are Drinking Water Samples Su	•		YES	(NO)	NA		by manual tion	İ			1	- 1		With Ice
res, Have You Met Minimum Field Q		nts?	YES	NO	NA		ĚĘ				- 1			YES NO
ati Semple		Collect	on I		N6.61	Sampler(s)	PCBs by extraction							2.46
Number Sample R	1	Date	Time	Matrix	Bottles	Inttiate	<u>⊼</u> %				_	-	+-+	Surprise Specific Reme
~ 77 093822-HS-AX-5		5/24/2010	1301	so	1	SSH	×				\rightarrow		+	hold/free3
- 74 093822-HS-AY-5		5/24/2010	1302	so	1	SSH	×					_ _	+-+	
-75 093822-HS-AZ-5		5/24/2010	1303	so	1	SSH	×				-+			
7 6 093822-HS-BA-5		5/24/2010	1304	SO	1-	SSH	×	-				+-	+	
~77 093822-HS-BB-5		5/24/2010	1305	SO	1	SSH	×					+	++	+
78 093822-HS-AZ-6		5/24/2010	1306	so	1_1_	SSH	×		\dashv				+	hold the
-79 093822-HS-BA-6 -60 093822-HS-BB-6		5/24/2010 5/24/2010	1307	SO SO	1	SSH	`						+ +	noia / For
- \$0 093822-HS-BB-6 093822-HS-AZ-7		5/24/2010	1309	so	1	SSH	Î -				-		++	hold Co ex
-82 093822-HS-BA-7		5/24/2010	1310	so	1	SSH	[-	_	1 1	THURST PECE
-67 093822-HS-BB-7		5/24/2010	1311	so	1	SSH	Î						 	hold Greze
-8-1 093822-HS-BC-5		5/24/2010	1312	so	+	SSH	î l				\neg	\dashv		. I DESTRUCTION
P Level Needed: GEI requires the		Method 1 M	SP standa	rd be me	for all ar		~ ~		Urnarc				4	ibmitting rush
nénever possible. inquisted by sampler: (signature)	Date		Received by:		414				Busine			£		nd samples, you mus laboratory to confirm
L'ellay	5/29/0	0800	1.66	F	ac	Ж		Normal 10-Day			her	_		AT can be achieved
inquished by: (signature)	Date: /	Time:	Received by:	(signature)	-			5-Day		3-Da	у			
GET Fride	5/25/10	1245	2 20	5 Se	gan			198	dditio	nal R	gulrer	nents/	Comment	/Remarks:
nquished by: (signature)	Date	Time:	Received by:	(algrature)	α	. 1	MANUA	L SOXLE	T EXTRA	ACTION I	REQUIRE	D.		
1 Can Gracie	5/25/W	1245	a. \	ــــــــــــــــــــــــــــــــــــــ	Chil		DCR R/	TES APP	LY.					
efinquished by: (signature) Date: Time: Received by: (signature)					-	CAUTIO	N- POTE	NTIAL E	LEVATE	PCBS.				
welland, 8/25/10 60 4.9,100 Acel					Samples were collected on 5/24/10. Individual sample labels say 5/25/10 and are									

M91651T: Chain of Custody Page 7 of 12



Chain-of-Custody Red	ord		·	Labora	itory:	Accutest				1.	-	Job#		M91651
Cham-on-oustody Net	1					roject Info				(Lab us	e only)			1191651
						roject inio	rmauo	eri .						
	Project Na	me: Canton	Airport				Proje	ct Loc	ation: (Canton,	MA			Page 8 of 10
GEL	Project Nu	ımber: 09382	-2				Proje	ct Man	ager: A	nne Le	ifer			
400 Unicorn Park Drive	Send Repo		Ray Siege	anor			.4.5			Pres	rvatįv			
Woburn, MA 01801	Ocho Nope	// to:	ray ologi	51161							ł	-		Sample Handlin
PH: 781.721.4000 FX: 781.721.4073	Send EDD	to: labdata@	geiconsul	tants.com	1		-	L	٠				ــــــــــــــــــــــــــــــــــــــ	Samples Field
10. 10.			*****					1	Ť	An:	alysis		1	Filtered
MCP PRESUMPTIVE CERTAINTY R	EQUIRED -	(YES) NO)		100	Section 1	soxlet				- 1	}	1 1	YES (NO)N
f Yes, Are MCP Analytical Methods F	Required?		(YES)	NO	NA					1 1			1 1	Sampled Shippe
f Yes, Are Drinking Water Samples S	Submitted?		YES	(NO)	NA		annai		i	li			1 1	With Ice
f Yes, Have You Met Minimum Field	QC Requireme	nts?	YES	NO	NA		I E _	İ				ĺ	1 1	YES NO
 A No. Strain St. Markette 	San San Line	Collect			No. of	Sampler(s)	PCBs by extraction					1		A ANTONIO
Lab Sample Number GEL Sample	f b.	Date	Time	Matrix	Bottles	Maittals	S A							Sample/Specific Rema
- 8 5 093822-HS-BD-3		5/24/2010	1313	so	1	SSH	x						<u> </u>	mld forez
- \$ € 093822-HS-BD-4		5/24/2010	1314	so	1	SSH	×						<u> </u>	
-87 093822-HS-BD.5-2		5/24/2010	1315	so	1	SSH	x						ļ	
- € 8 093822-HS-BD.5-1		5/24/2010	1316	SO	1	SSH	×						$\perp \perp$	
- 89 093822-HS-BD-0.5		5/24/2010	1317	so	1	SSH	x		—	\sqcup			1	
- 90 093822-HS-BC-0.5		5/24/2010	1318	so	1	SSH	×		-				├	
-91 093822-HS-BB-0.5		5/24/2010	1319	so	1	SSH	x	 		 			 	
- 42 093822-HS-BA-0.5		5/24/2010	1320	so	1	SSH	×			\vdash				
-93 093822-HS-AZ-0.5		5/24/2010	1321	so	1	SSH	×	ļ		\vdash	-+		 	
-94 093822-HS-AY-0.5 -95 093822-HS-AX-0.5		5/24/2010	1322	SO	1	SSH	×		ļ	H	\rightarrow		-	
-95 093822-HS-AX-0.5 -96 093822-HS-AW-0.5		5/24/2010 5/24/2010	1323	SO	1	SSH	×		-				 	
MCP Level Needed: GEI requires the	most štrinoen			SO rd be met			Ž		Turnar	ound T	me	10 140	Before	submitting rush
whenever possible.		4		يناد مقا عبد		1000	والمستعددة الأ	direction of	(Busin	ess day	/s):			und samples, you mus
Relinquished by sampler: (signature)	Date:		Received by:	(signature)	· ,			Norma	ıx_	_ 0	ther	_		e laboratory to confirm
1. 1) Work	Challo	0800	1. (96	7 /2	2019		1	10-Da	y	. 7-0	ау	_	that the	TAT can be achieved
Relingdished by: (signature)		Time:	Received by:	(signature)				5-Day		3-Da		1		F 188 - W - 0 - 15 80 - 1
2. GE Fulle Relinquished by: (signature)	5/25/10 Date : 1	1245 Time:	2. 7 C	20	gar	····	建强 企	**********	A Section Learning	4			ommen	ts/Remarks:
Cellinguation by. (signature)	5/25/10	1245	_ /	(Signature)	~ /	7/1				ACTION	REQUIRE	ED.		
Relinquished by: (signature)	Date :	Timo:	Received by:	(signature)	act	<i>ل</i>		ATES AF						
4. Irul-auch	Siste	1516	4 1	1 .1	. /					LEVATE		dual age	a tabala	EDEMO and are
+. vill-cine	Jiento	_ ~ _	4. LUY	Y de			Sample		collected	on 5/24/1	u. Indivi	oual sampl	y 120815 53)	y 5/25/10 and are
							mcorre							5/25/2010

M91651T: Chain of Custody Page 8 of 12



Chain-o	f-Custody Red	ord			Labora	tory:	Accutest				i .	-	Job#		r191651
	Toustouy Not	, o. u					rolect Info	rmatic			(Lab use	only)			117163
		Droinet No	me: Canton	Ai			i oject iino	T		tion: C	anton,	MA		11.7.7.7.	Page 9 of 10
\mathcal{C}															
C	Consultants	Project Nu	mber: 09382	!-2				Projec	t Man	iger: A	nne Lei	ter rvative			
	Inicorn Park Drive	Send Repo	rt to:	Ray Sieg	ener						Fiese	vauve	''''	TT	Sample Handli
	burn, MA 01801 I: 781.721.4000	L						İ							Samples Fiel
F)	K: 781.721.4073	Send EDD	to: labdata@	geiconsul	tants.com	l				anned a	Ana	lysis			Filtered
MCP PRESU	MPTIVE CERTAINTY R	EQUIRED	YES N	0	300	- 1 · 1		soxiet							YES NO N
f Yes, Are M	CP Analytical Methods R	equired?		(YES)	NO	NA									Sampled Shipp
f Yes, Are Dr	inking Water Samples S	ubmitted?		YES	(NO)	NA		manual 1				1		1 1	With Ice
f Yes, Have Y	You Met Minimum Field	QC Requiremen	nts?	YES	NO	NA		by m				1			YES NO
10 C. N. J.	A la Mallian 😯	40 100	Collect	ion	. (5.7	No. of	Sampler(s)					1		1 1	
Lab Sample Number	GEI Sample	D	Date	Time / s	Matrix	Bottles	* Initials	PCBs extrac							Sample Specific Ren
-97	093822-HS-AV-0.5		5/24/2010	1325	so	1	SSH	х							
-98	093822-HS-AU.5-1		5/24/2010	1326	so	1	SSH	x						$\sqcup \bot$	
-99	093822-HS-AU.5-2		5/24/2010	1327	so	1	SSH	×					_	 _	
-100	093822-HS-AU.5-3		5/24/2010	1328	so	1	SSH	×						\vdash	
-[0]	093822-HS-AU.5-4	·····	5/24/2010	1329	so	1	SSH	×					—		
-102	093822-HS-AU.5-5		5/24/2010	1330	so	11	SSH	×						\vdash	
-103	093822-HS-AV-5.5		5/24/2010	1331	so	1	SSH	×			\vdash	-	_		
-/04	093822-HS-AW-5.5		5/24/2010	1332	so	. 1	SSH	×			-	+	+	 -	
-105	093822-HS-AX-5.5		5/24/2010	1333	so	11	SSH	×						-+	
-106	093822-HS-AY-5.5		5/24/2010	1334	so	1	SSH	×						+ +	
-10 7	093822-HS-AY.5-6		5/24/2010	1335	so	1	SSH	×		-		-			
-(08	093822-HS-AY.5-7 leaded; GEI requires the	inimat stalestant	5/24/2010	1336	SO	fat all on	SSH	×		Ti Veni me	ound TI	100 a	1 3 3	Before	submitting rush
whenever pos	šsibie:	most bungent	Menner i iwi	or stanua	io be met	HOLEN OF	alytes	.6	. "		ess day				und samples, you mu
Relinquished by sar	mpler: (signature)	Date:	Time:	Received by:	(signature)				Normal	x_	Ot	her		7	ne laboratory to confir
1. <i>1</i>).()	Webe	9/25/10	0800	1.65	Mio	GR			10-Day			ау		that the	TAT can be achieve
Relinquished by: (si	ignature)	Date: /	Time:	Received by:	(signature)	7			5-Day		3-Da	у			
2. GEI	Frida	5/25/10	1245	2. 16	~ 5~	yeur_				Additio	onal Re	quire	nents/C	ommen	its/Remarks:
Relinquished by: (si	ignature)	Date:	Time:	Received by:	(signature)		,	MANUA	L SOXLE	T EXTR	ACTION F	tEQUIRE	D.		
3.11 an	Sugar	5/25/10	1245	3. <i>(J</i>	W-C	tell		DCR RA	TES AP	LY.					
Relinquished by: (si	. 0	Date:	15/16	Received by:			_	CAUTIO	N- POTE	NTIAL E	LEVATED	PCBS.			
4. إرا و	I tall	5/25/10	10.0	4.4.1.	el_	del	7	Sample	s were c	ollected	on 5/24/1). Individ	lual samp	e labels sa	y 5/25/10 and are
								incorrec	-t.						

M91651T: Chain of Custody Page 9 of 12



Chain-of-Custody Rec	ord		Labora	atory:	Accutest				1.		ry Job	#		M91651
Jilanii-Or Gustody Roo	1				roject Info	rmation			(Lab u	se only)				119(16)
	Project Name: Cant	on Airport			. Open into	1	t Loca	tion: C	anton	, MA				Page 10 of 10
GEI CONSUltants	Project Number: 09	382-2				Projec	t Mana	ger: A						
400 Unicorn Park Drive	Send Report to:	Ray Sieg	ener			L			Pres	ervati	vė .			Sample Handlin
Woburn, MA 01801 PH: 781,721,4000									İ	İ		1		Samples Field
FX: 781.721.4073	Send EDD to: labda	a@geiconsu	itants.cor	n					Aı	alysis				Filtered
ICP PRESUMPTIVE CERTAINTY RE	QUIRED - YES	NO			.)	soxiet								YES NO N
Yes, Are MCP Analytical Methods Re	quired?	YES	NO	NA		nalsc								Sampled Shippe With Ice
Yes, Are Drinking Water Samples Su	bmitted?	YES	(NO)	NA.		by manual tion	- 1			l		- 1		
Yes, Have You Met Minimum Field Q		(YES)	NO	NA		by r	1							YES NO
Leo Sample Number GEI Sample II	8 4 5 5 5 5 5 7	Time	Matrix	No. of Bottles	Sampler(s)	PCBs								Sample Specific Rema
7/09 093822-HS-AZ-7.5	5/24/20	10 1337	so	1	SSH	x								
-110 093822-HS-BA-7.5	5/24/20	10 1338	so	1	SSH	х				<u> </u>			\perp	
-/// 093822-HS-BD.5-6	5/24/20	10 1339	so	1	SSH	×								
-[1] 093822-HS-BD.5-7	5/24/20	10 1340	so	1	SSH	x				<u>L</u>		\bot		
				<u> </u>										
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		+	 	1	 	-						\top	_	
ICP Level Needed: GEI requires the vhenever possible.	most stringent Method 1		ard be me	et for all ar	nalýtes			umar Busin		Time				bmitting rush d samples, you mus
elinquished by sampler. (signature)	Date Time:	Received by	(signature)				Normal	Χ_		Other _				laboratory to confirm
n Wolf.	565/10 CBQ	1.06	Frio	<98]	10-Day		7-	Day _		tha	t the T	AT can be achieved
(elinquished by: (signature)	Dete: Time:	Received by	(signature)	, !	_		5-Day)ay		⅃		
. 681 tuke	3/25/10 1245	2. , Z	<u> 35</u>	acan.		<u> </u>		dditle	onal F	Requi	ements	/Com	ments	/Remarks
(elinquished by: (signature)	Date: Time:	Received by	(signtature)		.1	MANUA			ACTION	REQUI	RED.			
telinquished by: (Signature)	3/25/10 /245 Date: Time:	Received by	MILL	Jul.		1	TES APP							
	5/20/10 VS1	received by	(agnature)	,2		<u> </u>	N- POTE							
1. welded	17/2/1/21 10 "	14. \ \	1110	1 00		1Samples	were co	dected	on 5/24	/10. Ind	ividual sar	npie lab	els say 5	/25/10 and are

M91651T: Chain of Custody Page 10 of 12



Mark Warren

From:

Monday, August 02, 2010 3:41 PM Sent:

Tyana Nguyen ö

Subject: FW: Comparability Study

Hi Tyana,

Would you enter these re-log projects for me? You can use an "R" job or "T" job as some of these projects already have "R" jobs. Thanks,

Mark Warren

Accutest Laboratories of NE Voice: 508,481,6200 Ext, 247

Fax: 508.481.7753

markw@accutest.com

Accutest - "The national Testing Laboratory with Total Performance you can count on"

From: Mark Warren

Sent: Monday, August 02, 2010 2:19 PM

To: Kristen Blanchard

Subject: FW: Comparability Study

Kristen,

I need to talk to you briefly about this. Thanks,

Mark Warren

Accutest Laboratories of NE Voice: 508.481.6200 Ext. 247

Fax: 508.481.7753

markw@accutest.com

Accutest - "The national Testing Laboratory with Total Performance you can count on"

From: Siegener, Ray [mailto:RSiegener@geiconsultants.com] Sent: Wednesday, July 28, 2010 3:45 PM

To: Mark Warren; Frank D'Agostino; Reza Tand Cc: Haley, Heather; Oosting, Saskia; Leifer, Anne

Subject: Comparability Study

M91651T: Chain of Custody

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dilution to see if we get results within the windows we need to hit $(0.90~\mathrm{ppm}-1.0~\mathrm{ppm}$ or $1.0~\mathrm{ppm}-1.10~\mathrm{ppm})$. As we discussed, we still need to perform some additional work to get this comparability study completed. The analyzed initially. We would like you to reextract (using Method 3540C) and reanalyze these samples with no table below has two sections – the top contains two samples that were close to the 1 ppm standard when

For the second set of 4 samples, we have included the initial result and the recommended dilution we would like you to perform, prior to extraction, to obtain sample results within the ranges listed above. As we discussed,

8/2/2010

you can use clean sand to dilute these samples prior to extraction by Method 3540C – please prepare enough of the diluted samples so there is material remaining for extraction using Method 3545, if we are successful. We will need to review the results before proceeding with Method 3545 extractions. We will need results by August 12 for the Method 3540C samples (2-week TAT). Please give me a call if you have any questions.

GELID HS-AT.5-8 B213(0.5-2) HS-AI-10.5 CS-RWA104 HS-BDS-6

Regards, Ray

Project Environmental Scientist Raymond Siegener, Ph.D.

400 Unicorn Park Drive Woburn, MA 01801

GEI Consultants, Inc.

Office: 781-721-4098

www.geiconsultants.com Cell: 339-227-3342

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Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

	Page 10 of 32
21 May 2004	Revision No. 3.2
BWSC-CAM	Exhibit VII A-1

Title: MADEP MCP Response Action Analytical Report Certification Form

		MADEP M	CP Analytical Method	Report Certific	ation Form		
Labo	ratory Name:	Accutest Laboratories	of New England		Project #:	M91651T	
Proje	ct Location:	Canton Airport Canton	MA	I	MADEP RTN	None	
This	form provides certificat M91651-111T,M9165	ions for the following da 1-112T	ta set:				
Samp	le Matrices:	Groundwater Sc	oil/Sediment X Drinki	ng Water ()	Other:	()	()
	MCP SW-846	8260B ()	8151A ()	8330 ()	6010B	()	7470A/1A ()
	Methods Used	8270C ()	8081A ()	VPH ()	6020	()	9014M ² ()
	ecified in MADEP	8082 (X)	8021B ()	EPH ()	7000 S ³	()	7196A ()
Analy	endium of tical Methods. eck all that apply)		umber (RTN), if known 14 or MADEP Physiological 100 Series List Individual m				
	An affirmative respo	nse to questions A, B,	C, and D is required fo	or "Presumptiv	e Certainty status	S	
Α	that described on the	Chain-of-Custody docur	n a condition consistent we mentation for the data se	t?	V	Yes	☐ No ¹
В	included in this report	followed, including the r QC data that did not me	specified analytical methor requirement to note and set appropriate performan	. ,	V	Yes	□ No ¹
С	for "Presumptive Cert (d) of the MADEP doo	ainty", as described in S cument CAM VII A, "Qua	the analytical requirement ection 2.0 (a), (b), (c) an lity Assurance and Qual porting of Analytical Data	d ity	V	Yes	□ No ¹
D		ods only: Was the VPH ns, as specified in Section	or EPH method run withon 11.3?	out	V	Yes	□ No ¹
	A response to quest	ions E and F below is	required for "Presump	tive Certainty"	status		
E	Were all QC performa specified methods acl	ince standards and reco	mmendations for the		Pofor to Norrative	Yes	☐ No ¹
F			ements for the specified		Refer to Narrative Refer to Narrative	Yes	□ No ¹
1	All Negative respons	ses must be addressed	l in an attached Enviro	nmental Labor	atory case narrat	ive.	
inqu	ry of those responsil	ble for obtaining the in	nalties of perjury that, formation, the material and belief, accurate a	contained in t			
Sign	ature:	m tad	Posit	ion: Lab	oratory Director	_	
Print	ed Name:	Reza Tand	Date:		08/12/2010		



Internal Sample Tracking Chronicle

GEI Consultants, Inc.

Job No: M91651T

Canton Airport Canton MA Project No: 09382-2

Sample Number	Method	Analyzed	Ву	Prepped	Ву	Test Codes
M91651-11 093822-HS	1 C ollected: 24-MAY-10 -BD.5-6	13:39 By: SSH	Receiv	ved: 25-MAY	7-10]	Ву: ЈВ
	1\$W846 8082 1\$W846 8082	07-AUG-10 23:43 09-AUG-10 18:04		05-AUG-10 05-AUG-10		P8082SOXHLET P8082SOXHLET
M91651-11 093822-HS	2 C ollected: 24-MAY-10 -BD.5-7	13:40 By: SSH	Receiv	ved: 25-MAY	7-10]	Ву: ЈВ
	25W846 8082 25W846 8082	08-AUG-10 00:05 09-AUG-10 18:26		05-AUG-10 05-AUG-10		P8082SOXHLET P8082SOXHLET



GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries



Method: SW846 8082

Method Blank Summary Job Number: M91651T

GEI GEI Consultants, Inc. Account: Canton Airport Canton MA Project:

Sample OP22217-MB	File ID YZ59159.D	DF 1	Analyzed 08/07/10	By CZ	1	Prep Batch OP22217	Analytical Batch GYZ2524

The QC reported here applies to the following samples:

M91651-111T, M91651-112T

2051-24-3

Decachlorobiphenyl

2051-24-3 Decachlorobiphenyl

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	97	ug/kg
11104-28-2	Aroclor 1221	ND	97	ug/kg
11141-16-5	Aroclor 1232	ND	97	ug/kg
53469-21-9	Aroclor 1242	ND	97	ug/kg
12672-29-6	Aroclor 1248	ND	97	ug/kg
11097-69-1	Aroclor 1254	ND	97	ug/kg
11096-82-5	Aroclor 1260	ND	97	ug/kg
CAS No.	Surrogate Recoveries		Limi	ts
877-09-8	Tetrachloro-m-xylene	102%	30-15	60 %
877-09-8	Tetrachloro-m-xylene	110%	30-15	60 %
	· ·			

101%

126%

30-150%

30-150%

Page 1 of 1

Method: SW846 8082

Blank Spike/Blank Spike Duplicate Summary

Job Number: M91651T

Account: GEI GEI Consultants, Inc.
Project: Canton Airport Canton MA

Sample OP22217-BS OP22217-BSD	File ID YZ59160.D YZ59161.D	Analyzed 08/07/10 08/07/10	By CZ CZ	Prep Date 08/05/10 08/05/10	Prep Batch OP22217 OP22217	Analytical Batch GYZ2524 GYZ2524

The QC reported here applies to the following samples:

M91651-111T, M91651-112T

2051-24-3 Decachlorobiphenyl

2051-24-3 Decachlorobiphenyl

		a .n	Dan	DOD	D.C.D.	Dan		.
CAS No. Comp	pound		BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
12674-11-2 Arocl 11104-28-2 Arocl 11141-16-5 Arocl 53469-21-9 Arocl 12672-29-6 Arocl 11097-69-1 Arocl 11096-82-5 Arocl	or 1221 or 1232 or 1242 or 1248 or 1254	255255	277 ND ND ND ND ND ND ND 283	109 111	292 ND ND ND ND ND ND 303	112116	5 nc nc nc nc nc rc	40-140/30 40-140/30 40-140/30 40-140/30 40-140/30 40-140/30
CAS No. Surro	ogate Recoveries	BSP	BSD		Limits			
	chloro-m-xylene chloro-m-xylene	110% 118%	112% 118%		30-150% 30-150%			

114%

139%

30-150%

30-150%

109%

134%



Page 1 of 1

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M91651T

Account: GEI GEI Consultants, Inc.
Project: Canton Airport Canton MA

		DF 1	ïle ID Z59162.D	Sample OP22217-MS
3.D 1 08/07/10 CZ 08/05/10 OP22217 GYZ2524	08/	1	Z59163.D	OP22217-MSD
4.D 1 08/07/10 CZ 08/05/10 OP22217 GYZ2524	l 08 /	1	Z59164.D	M93324-1
4.D 1 08/07/10 CZ 08/05/10 OP22217 G	l 08/	1	Z59164.D	M93324-1

The QC reported here applies to the following samples: Method: SW846 8082

M91651-111T, M91651-112T

CAS No.	Compound	M93324-1 ug/kg Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	ND ND ND ND ND ND	262 262	285 ND ND ND ND ND ND 321	109 122	277 ND ND ND ND ND ND ND	105 117	3 nc nc nc nc nc	40-140/50 40-140/50 40-140/50 40-140/50 40-140/50 40-140/50
CAS No.	Surrogate Recoveries	MS	MSD		3324-1	Limits			
877-09-8	Tetrachloro-m-xylene	114%	108%	109		30-1509			
877-09-8	Tetrachloro-m-xylene	121%	111%	118		30-1509			
2051-24-3	Decachlorobiphenyl	127%	118%	117		30-150%			
2051-24-3	Decachlorobiphenyl	126%	123%	124	:%	30-1509	6		



Semivolatile Surrogate Recovery Summary

Job Number: M91651T

Account: GEI GEI Consultants, Inc.
Project: Canton Airport Canton MA

Method: SW846 8082 Matrix: SO

Samples and QC shown here apply to the above method

Lab	Lab				
Sample ID	File ID	S1 a	S1 b	S2 a	S2 b
M91651-111T	YZ59166.D	111.0	120.0	117.0	137.0
M91651-111T	YZ59197.D	108.0	102.0	116.0	116.0
M91651-112T	YZ59167.D	113.0	120.0	119.0	140.0
M91651-112T	YZ59198.D	111.0	106.0	118.0	117.0
OP22217-BS	YZ59160.D	110.0	118.0	109.0	134.0
OP22217-BSD	YZ59161.D	112.0	118.0	114.0	139.0
OP22217-MB	YZ59159.D	102.0	110.0	101.0	126.0
OP22217-MS	YZ59162.D	114.0	121.0	127.0	126.0
OP22217-MSD	YZ59163.D	108.0	111.0	118.0	123.0

Surrogate Recovery Compounds Limits

 $\begin{array}{ll} S1 = \mbox{ Tetrachloro-m-xylene} & 30\text{-}150\% \\ S2 = \mbox{ Decachlorobiphenyl} & 30\text{-}150\% \end{array}$

(a) Recovery from GC signal #1(b) Recovery from GC signal #2

